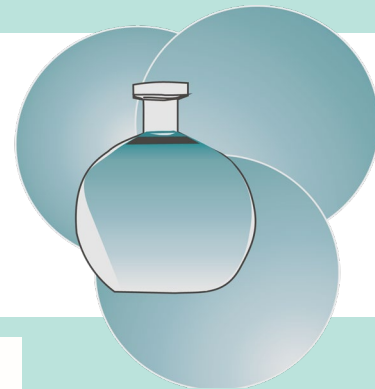


Fakultät für Naturwissenschaften

Institut für Chemie



lädt ein

gemeinsam mit der Gesellschaft
Deutscher Chemiker
zum



Vortrag

von Herrn

Prof. Michael Meier

*Institute of Organic Chemistry
(IOC) and Chemical Systems
– Functional Molecular
Systems (IBCS-FMS)
Karlsruhe Institute of
Technology (KIT)*

**“New cellulose
chemistry from a
sustainability
perspective:
renewability is not
enough”**

am: 11. Mai 2023

um: 16:00 Uhr

WO: im Raum 1/232

Die kleine Kaffeerunde vor dem Vortrag
beginnt um 15:30 Uhr im Raum 1/232.

Gäste sind herzlich willkommen!



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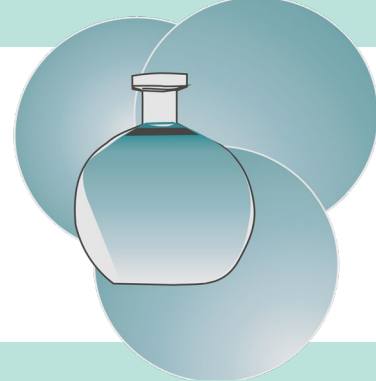
Prof. Dr. Michael Sommer

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Fakultät für Naturwissenschaften

Institut für Chemie



Prof. Michael Meier

*Institute of Organic Chemistry (IOC)
and Chemical Systems –
Functional Molecular Systems
(IBCS-FMS)
Karlsruhe Institute of
Technology (KIT)*



“New cellulose chemistry from a sustainability perspective: renewability is not enough”

In order to develop truly 'green' polymeric materials, using renewable resources is insufficient. The renewable feedstocks rather have to be used in a sustainable fashion by combining as many of the principles of green chemistry as possible and by applying quantitative methods of sustainability evaluation.

Within this contribution, the focus will be on new approaches for the synthesis of polymeric materials from carbohydrates. Sustainable functionalization strategies of cellulose, including new solubilization and catalysis concepts as well as the use of multicomponent reactions, will be discussed.

Bio:

Michael A. R. Meier studied chemistry in Regensburg (Germany) and received his Ph.D. from the Eindhoven University of Technology (The Netherlands) in 2006. After further stays in Emden and Potsdam, he was appointed as full professor at the Karlsruhe institute of Technology (KIT) in 2010. He has received several awards and is associate editor of ACS Sustainable Chemistry & Engineering. His research interests include the sustainable use and derivatization of renewable resources for polymer chemistry as well as the design of novel highly defined macromolecular architectures.



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